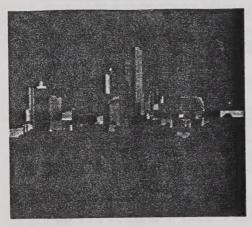
7 0061

# Bayview Hunters Point Community Health and Environment Check Up



Tomas Aragon, MD, MPH SF Dept of Public Health



Kevin Grumbach, MD
Medical Effectiveness
Research Center for
Diverse Populations
UCSF

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JUN 16 1997

UNIVERSITY OF CALIFORNIA

Bayview Hunters Point Health and Environmental Assessment Task Force
May 17, 1997

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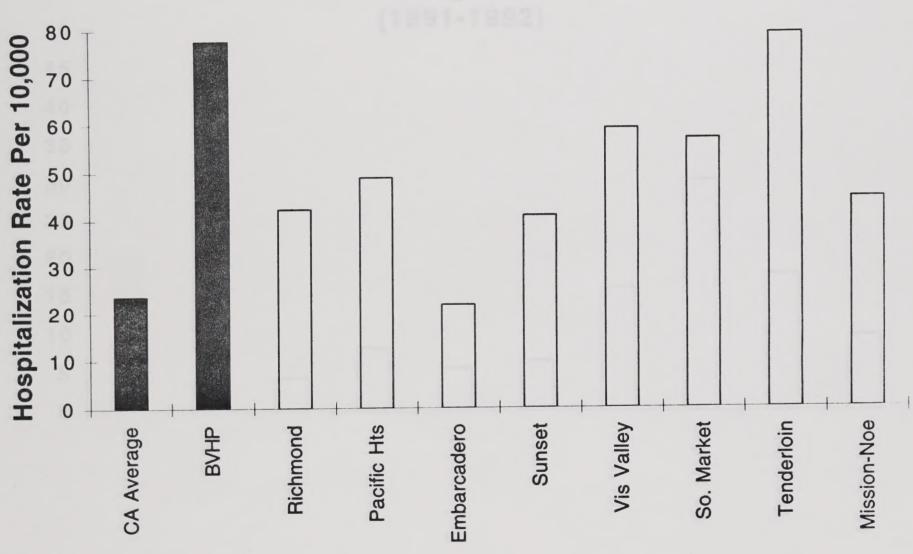
## SURVEY QUESTION WORKSHEET RESPONSES TOTAL RESPONSES:215

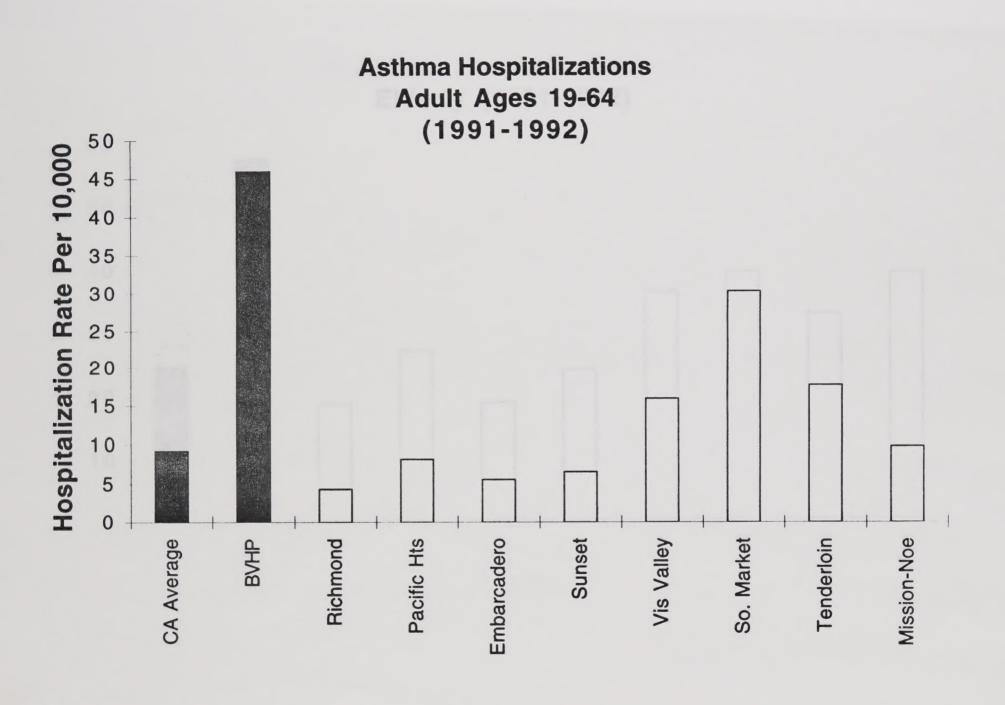
QUESTIONS	RESPONSES
STRESS	211
VIOLENCE	208
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### **Demographics (1990)**

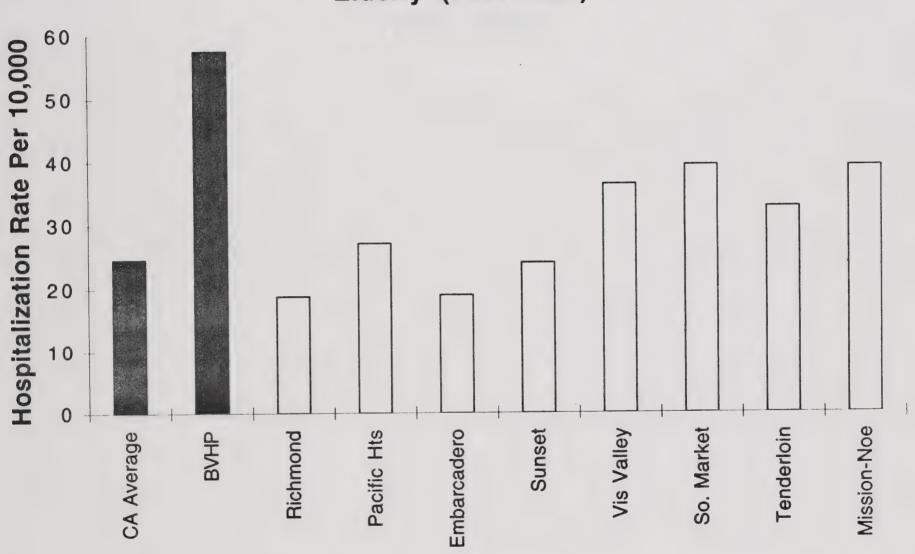
	BVHP	SF
Population	28,444	723,959
African American Asian	61% 22%	11% 29%
Age ≤ 15 years	25%	14%
Household Income Below Poverty Unemployment Rate	\$31,900 25% 13%	\$45,700 13% 6%
Home Ownership	50%	35%

# Asthma Hospitalizations Children (1991-1992)



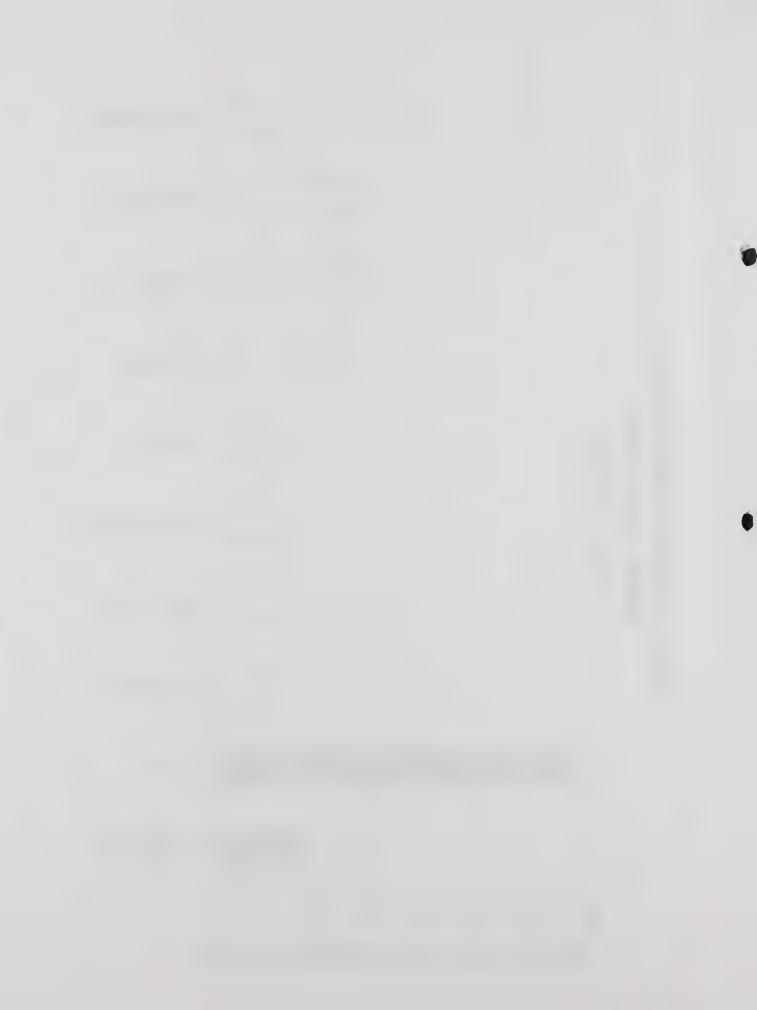


# Asthma Hospitalizations Elderly (1991-1992)

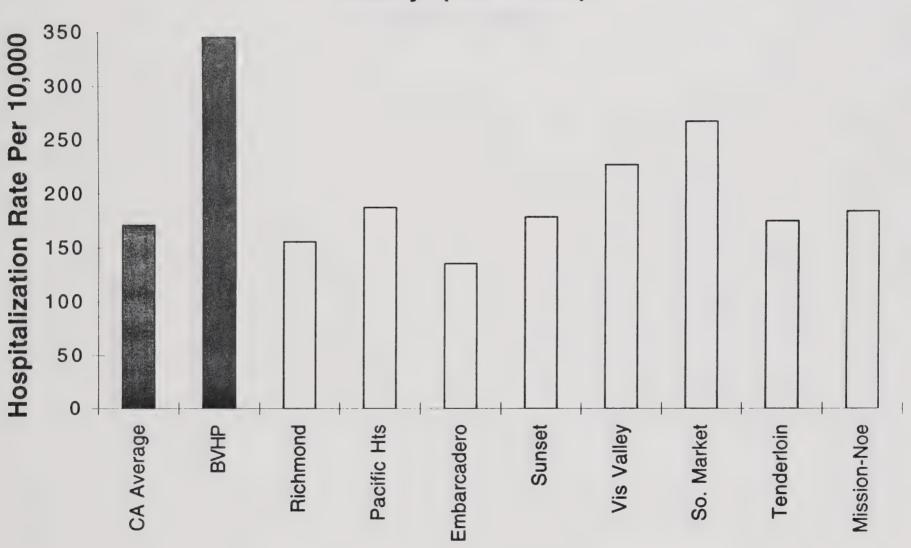


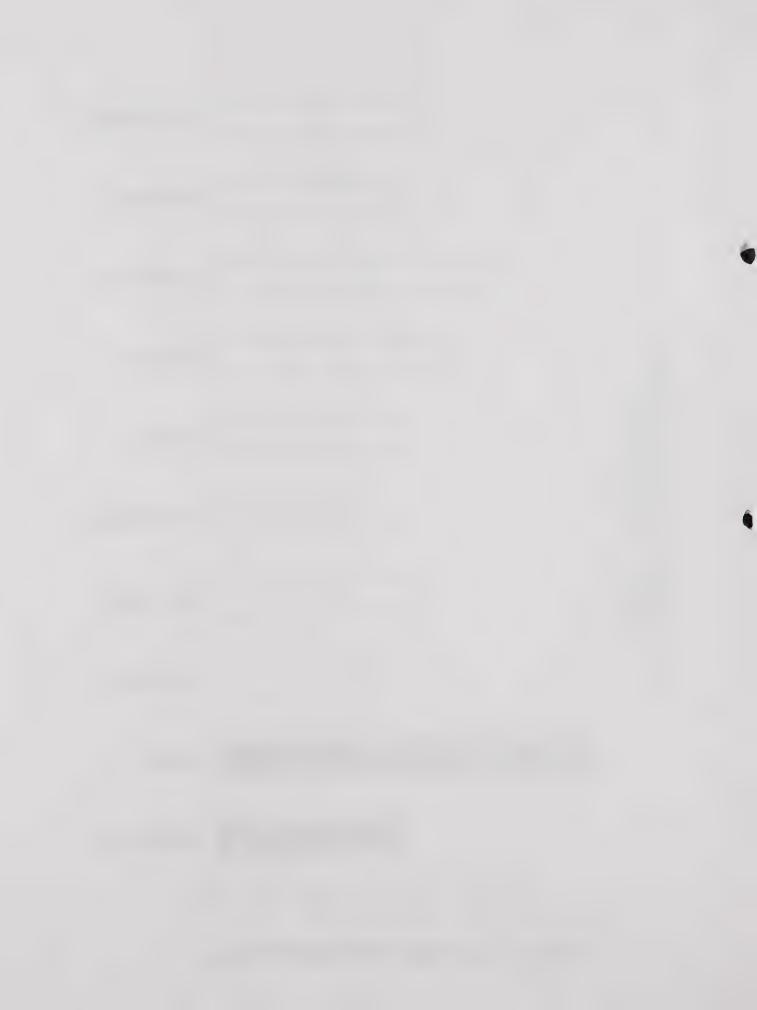


**Heart Failure Hospitalizations** Adult Ages 19-64 (1991-1992)35 Hospitalization Rate Per 10,000 30 25 20 15 10 5 0 Sunset Mission-Noe Tenderloin So. Market Embarcadero Vis Valley BNHP Pacific Hts Richmond CA Average

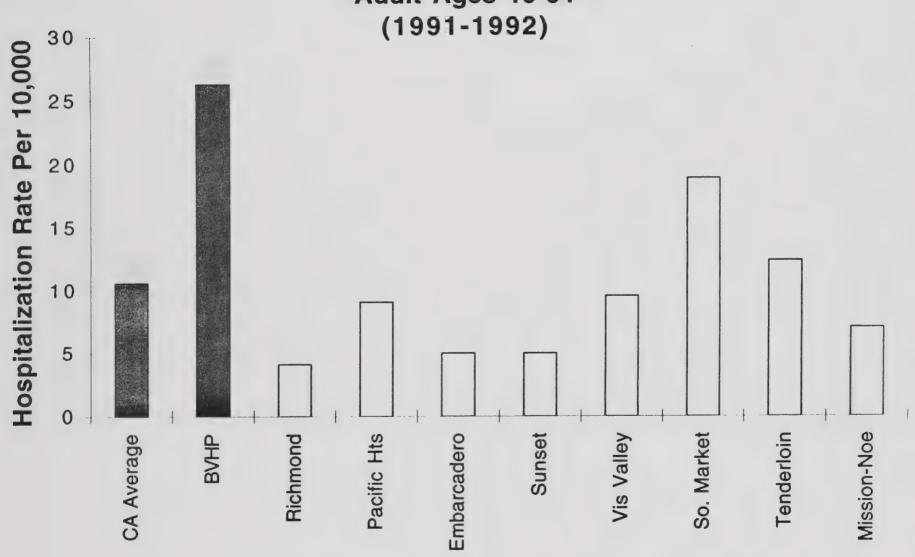


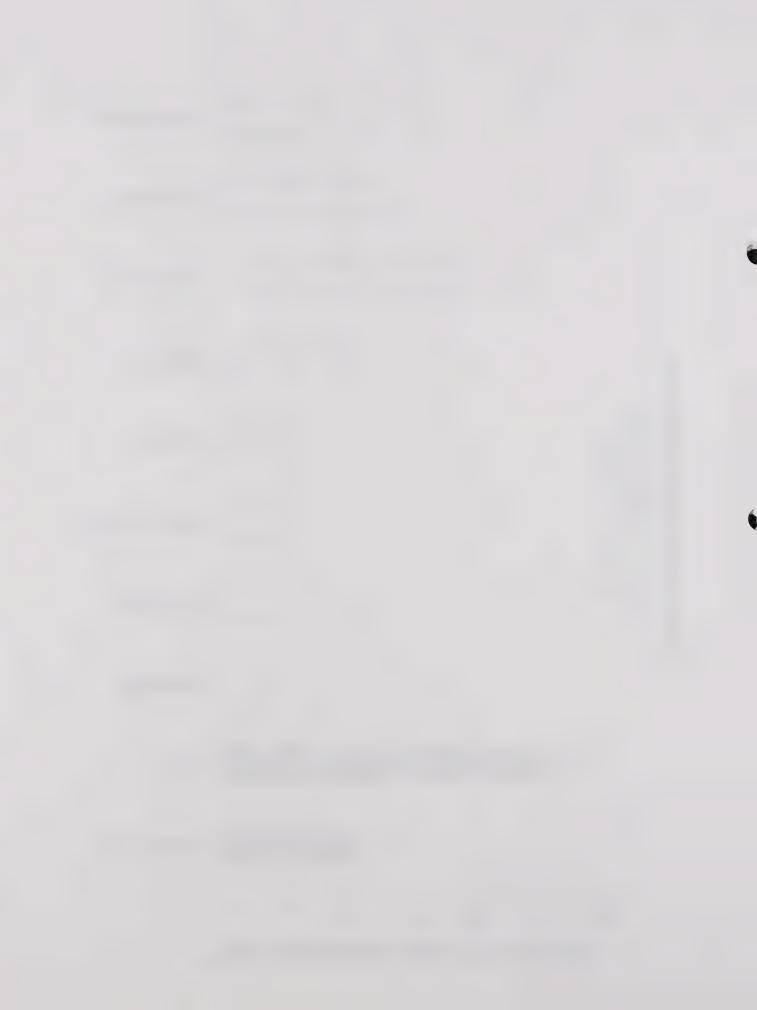
# Heart Failure Hospitalizations Elderly (1991-1992)



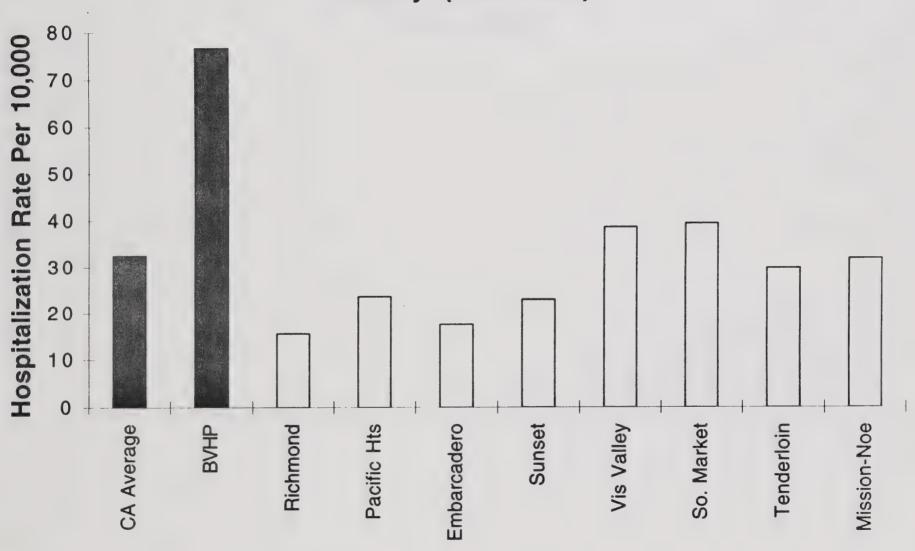


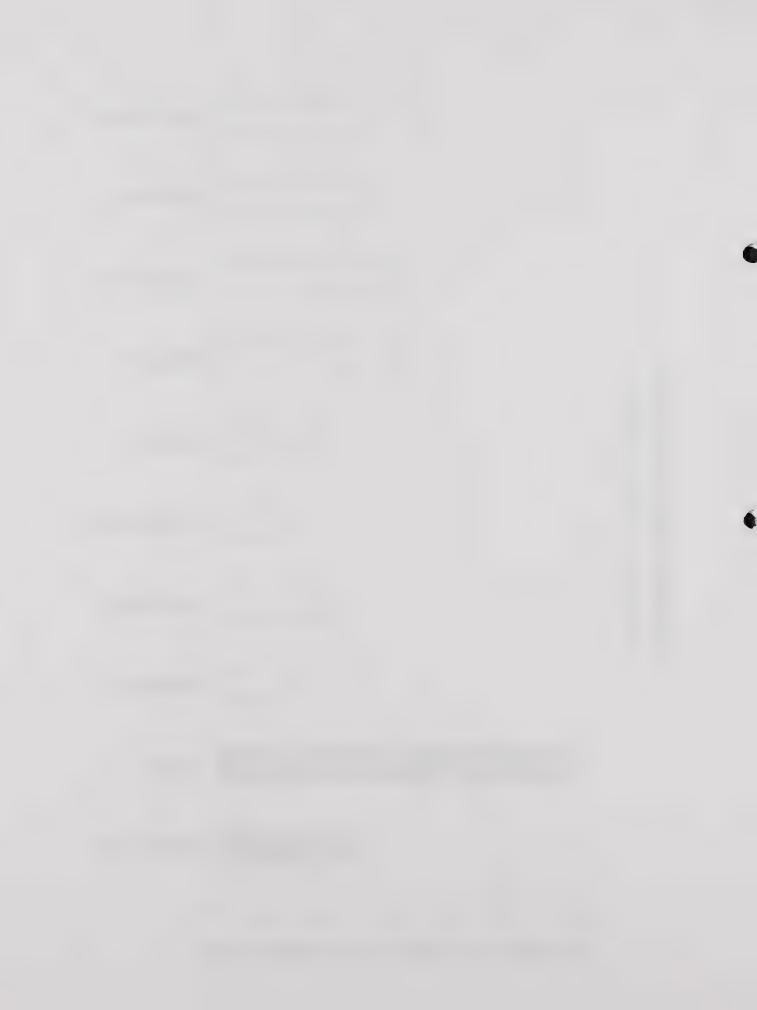
Diabetes Hospitalizations Adult Ages 19-64 (1991-1992)

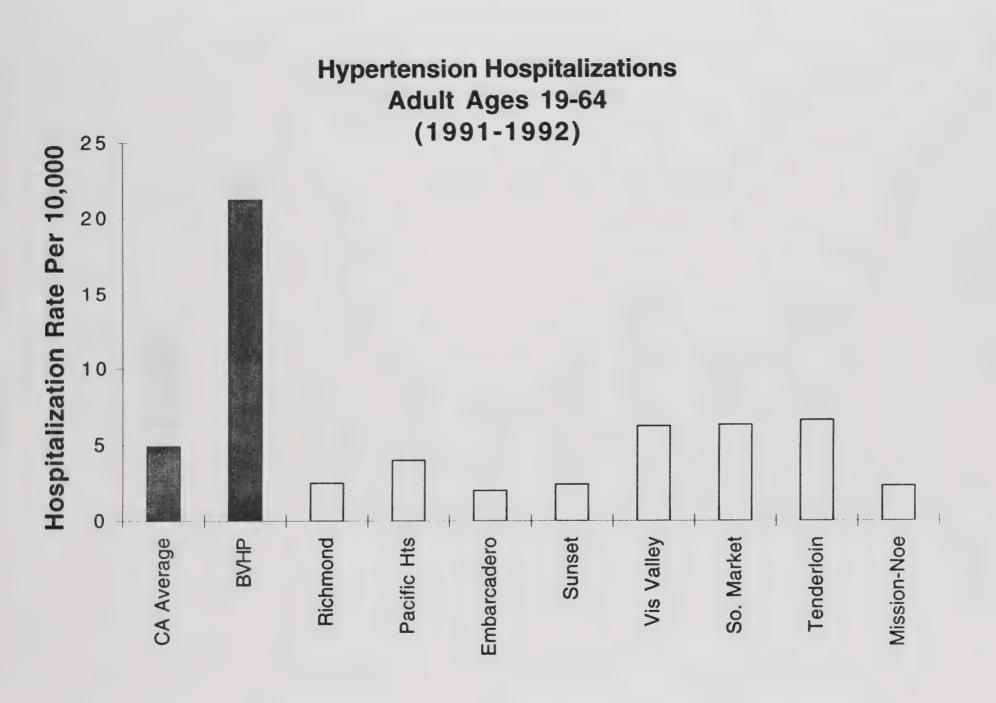


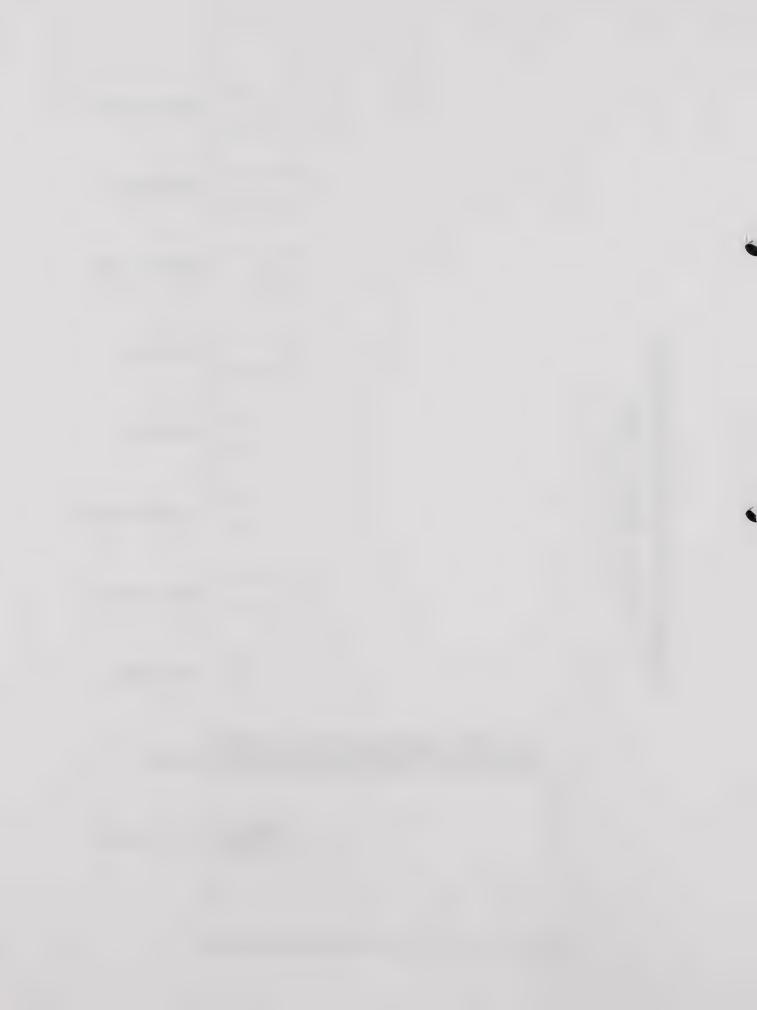


#### Diabetes Hospitalizations Elderly (1991-1992)

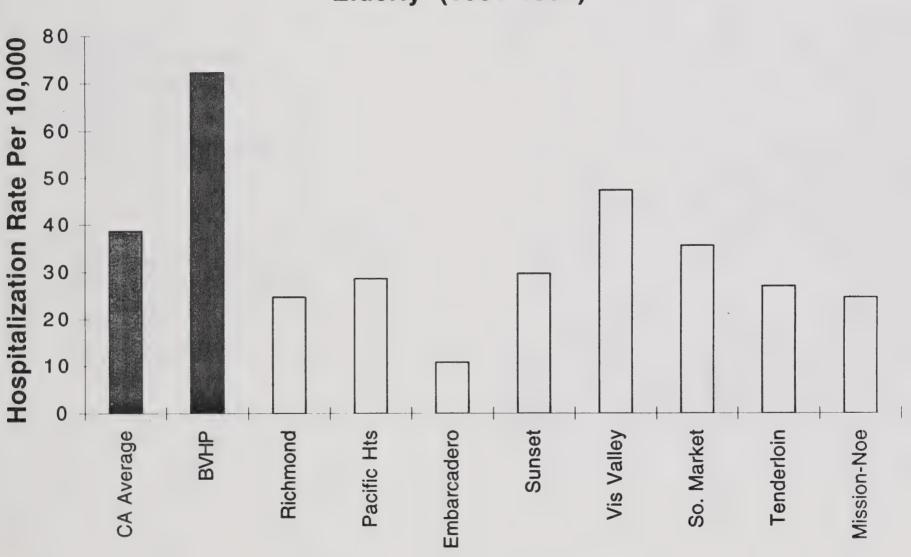


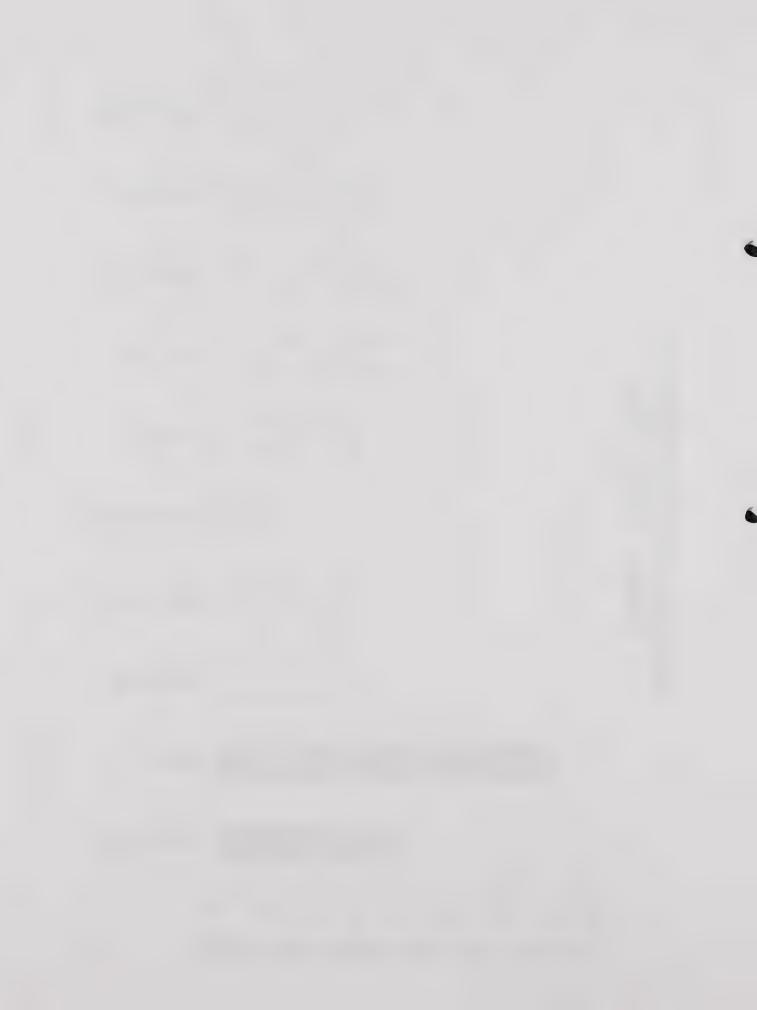






# Hypertension Hospitalizations Elderly (1991-1992)





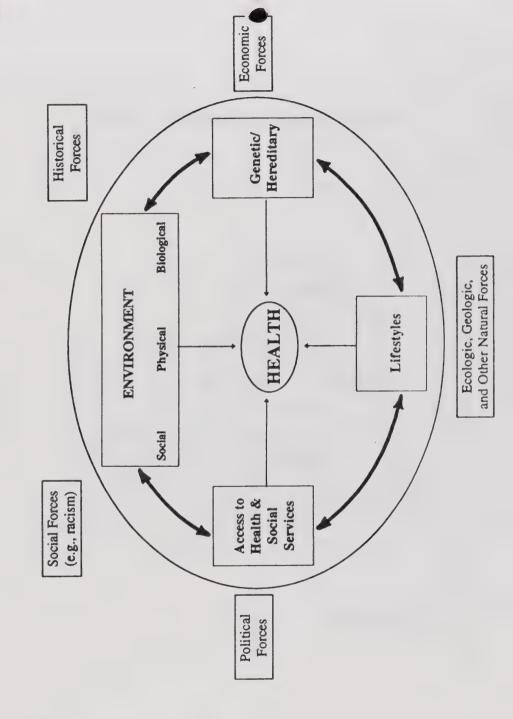
#### **Community Health Mini-Profile**

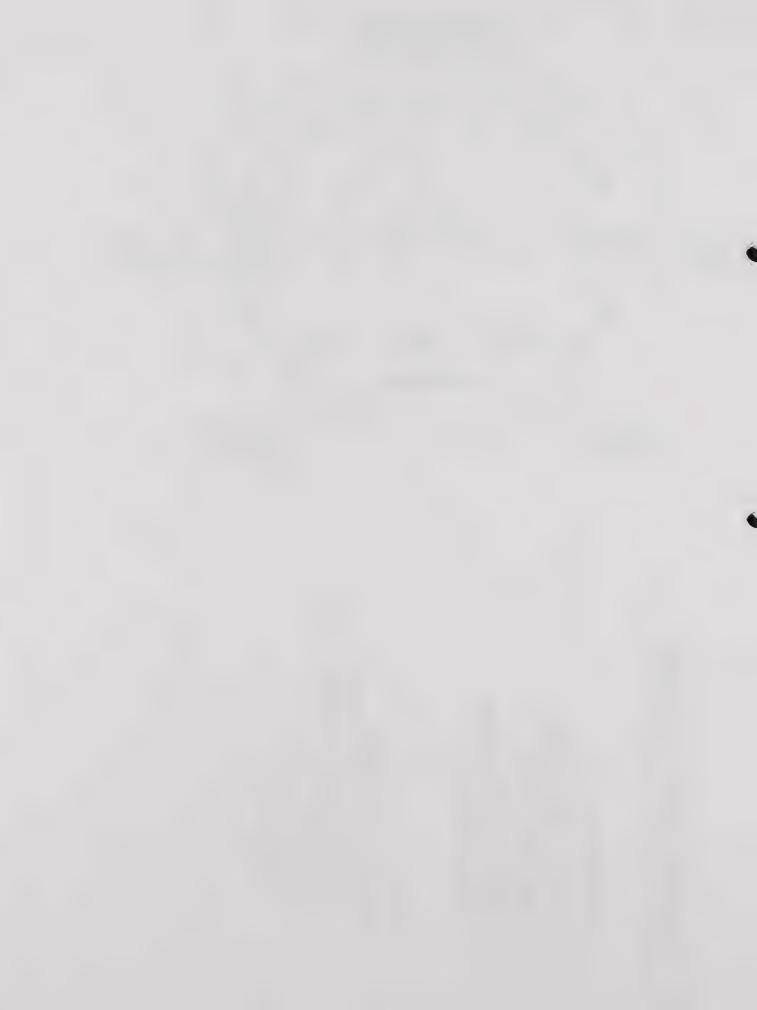
Bayview-Hunters Point Health & Environmental Assessment Project

- Demographics
- Socioeconomic indicators
- Health & wellness Indicators
- · Behavioral risk factors
- Health Care Access
- Community & Personal Safety
- Environmental Health

#### Today:

- Leading cancers in BVHP
- Leading causes of deaths in BVHP
- Environmental exposures in BVHP
  - Toxic Profile
  - Toxic Air Contaminants
  - Lead poisoning





#### **Community Health Mini-Profile**

Bayview-Hunters Point Health & Environmental Assessment Project

Breast, Cervical, Colorectal, Lung, and Prostate Cancer: Incidence by San Francisco Planning District

> Daramöla Cabral Evins, DrPH, PA Tomás Aragón, MD, MPH

Office of Chronic Disease Epidemiology Community Health & Safety Division San Francisco Department of Public Health

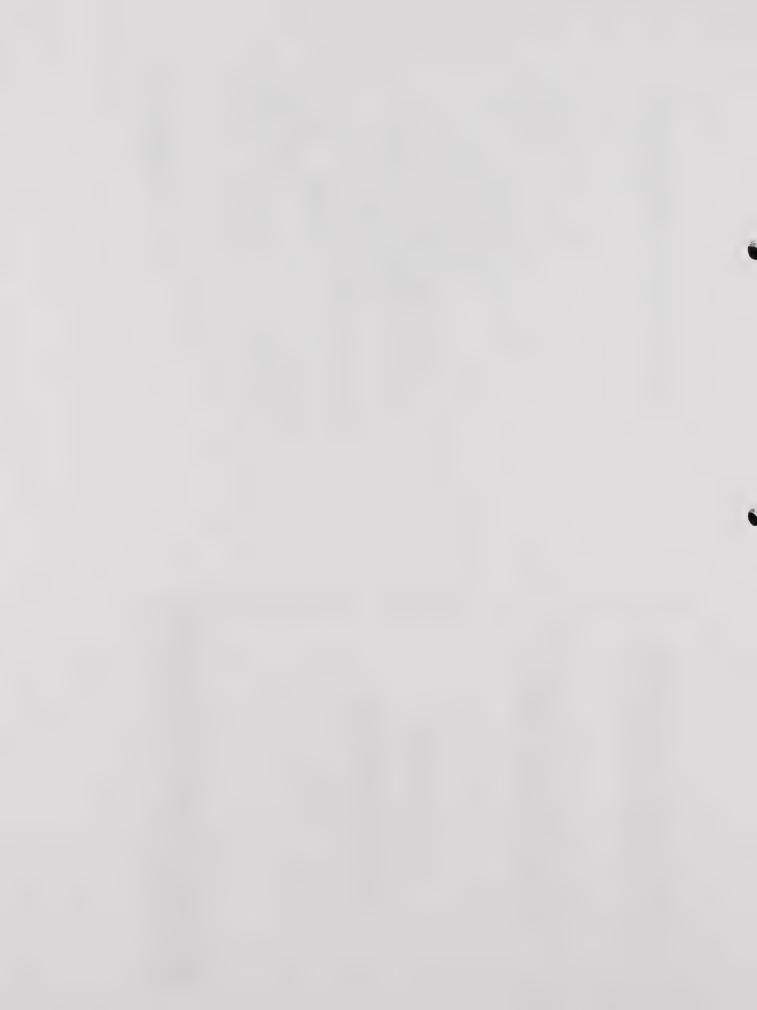
**DRAFT**May 14, 1997

The Bayview-Hunters Point Health & Environmental Assessment Task Force is a collaborative effort between Bayview-Hunters Point neighborhood residents and the following organizations: Golden Gate University Environmental Law & Justee Clinic; Sout East Alliance for Environmental Justice; Northern California Cancer Center; Lead Poisoning Prevention Project; University of California, San Francisco; San Francisco Department of Public Health, California Department of Health Services, and more.

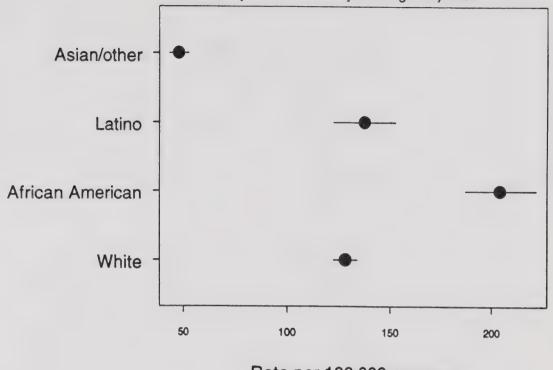
Figure 1. San Francisco Planning Districts



Mapped by Ricardo B. Bermidez
SF DPH Chronic Disease Endemiolog:



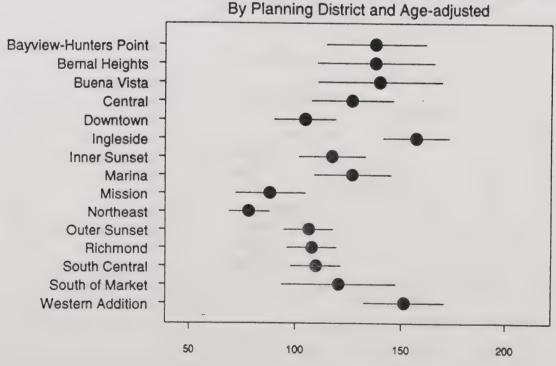
#### San Francisco Male Prostate Cancer Rates 1987-1993 By Race/Ethnicity and Age-adjusted



#### Rate per 100,000 per year

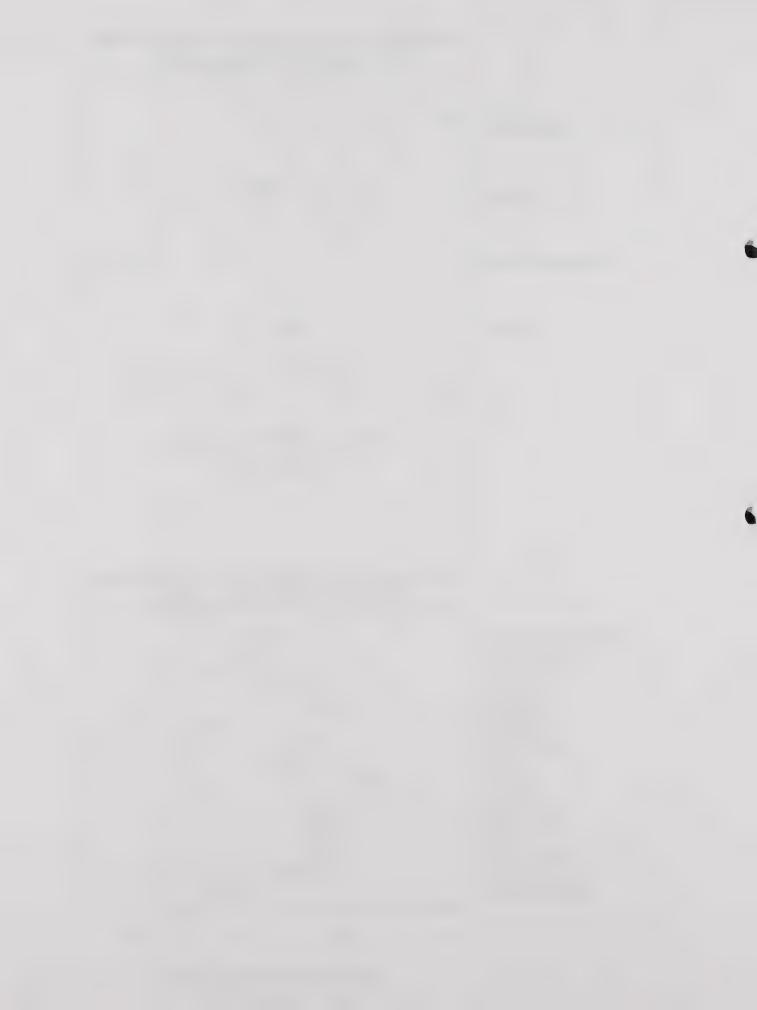
Source: Epidemiology, SFDPH

#### San Francisco Male Prostate Cancer Rates 1987-1993 By Planning District and Age-adjusted

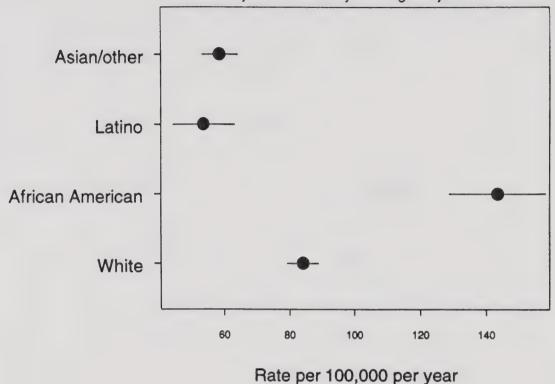


Rate per 100,000 per year

Source: Epidemiology, SFDPH



### San Francisco Male Lung Cancer Rates 1987-1993 By Race/Ethnicity and Age-adjusted

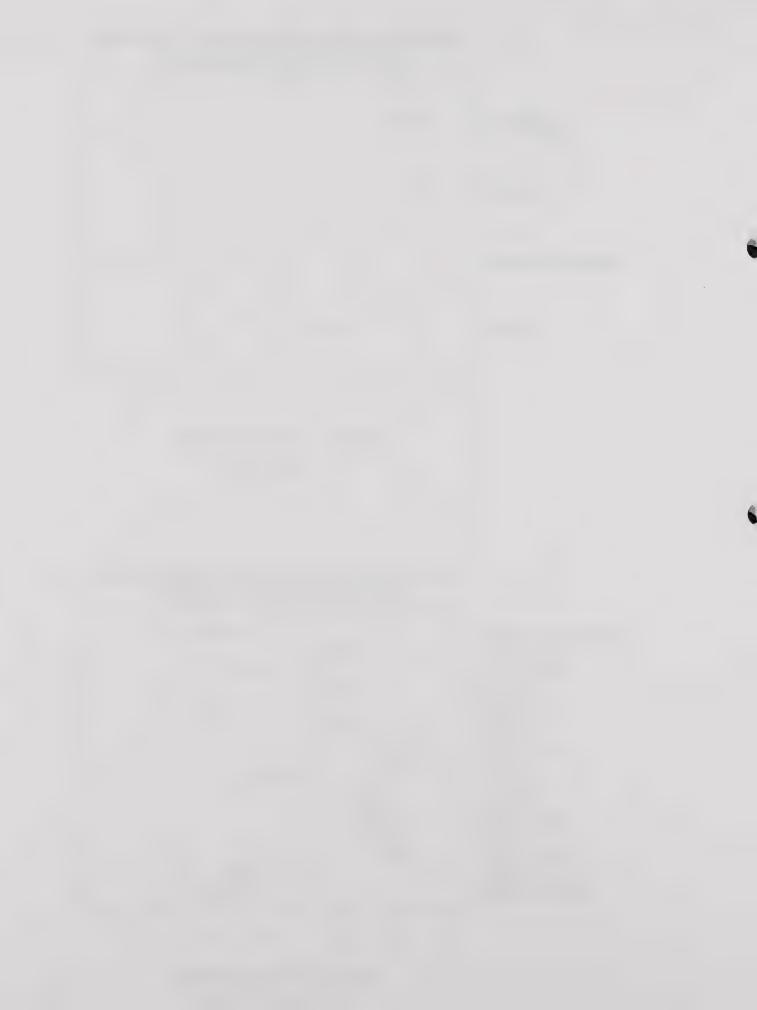


Source: Epidemiology, SFDPH

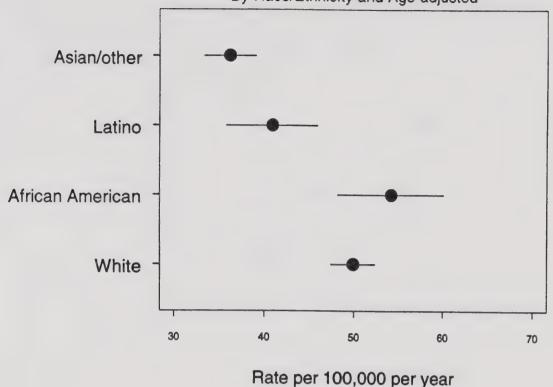
San Francisco Male Lung Cancer Rates 1987-1993 By Planning District and Age-adjusted Bayview-Hunters Point Bemal Heights Buena Vista Central Downtown Ingleside Inner Sunset Marina Mission Northeast **Outer Sunset** Richmond South Central South of Market Western Addition 60 80 100 120 140

Rate per 100,000 per year

Source: Epidemiology, SFDPH



### San Francisco Combined Colorectal Cancer Rates 1987-1993 By Race/Ethnicity and Age-adjusted

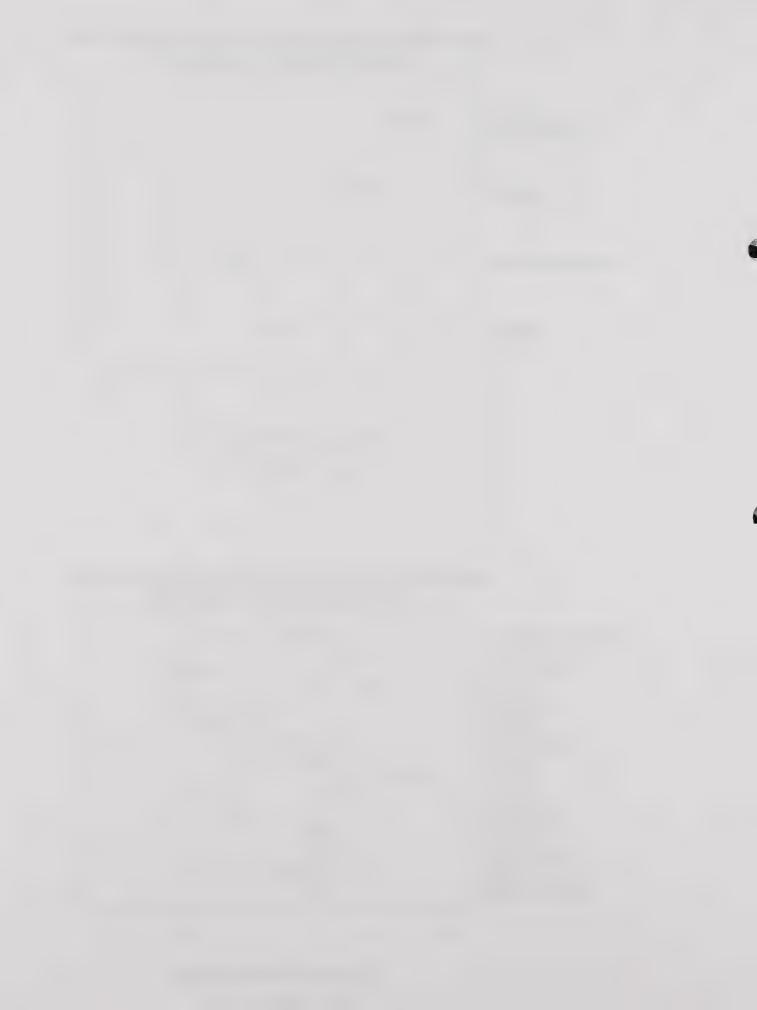


Source: Epidemiology, SFDPH

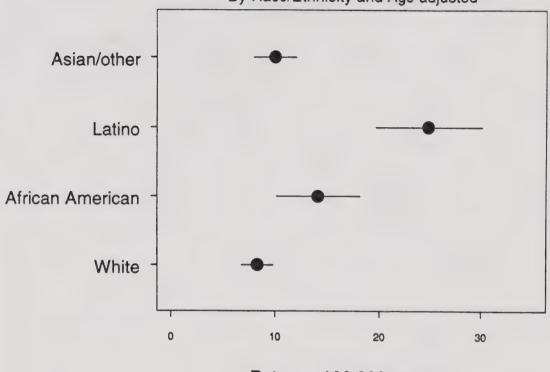
Rate per 100,000 per year

Source: Epidemiology, SFDPH

#### San Francisco Combined Colorectal Cancer Rates 1987-1993 By Planning District and Age-adjusted Bayview-Hunters Point Bernal Heights Buena Vista Central Downtown Ingleside Inner Sunset Marina Mission Northeast **Outer Sunset** Richmond South Central South of Market Western Addition 30 40 50 60 70



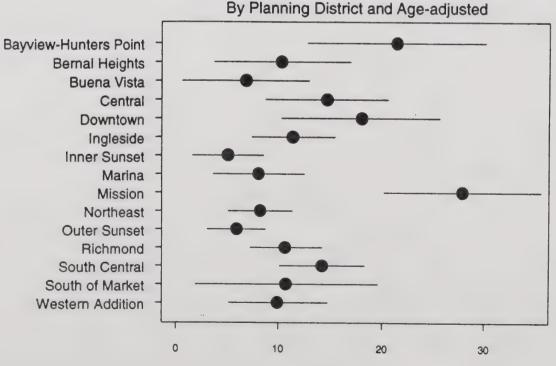
### San Francisco Female Cervical Cancer Rates 1987-1993 By Race/Ethnicity and Age-adjusted



#### Rate per 100,000 per year

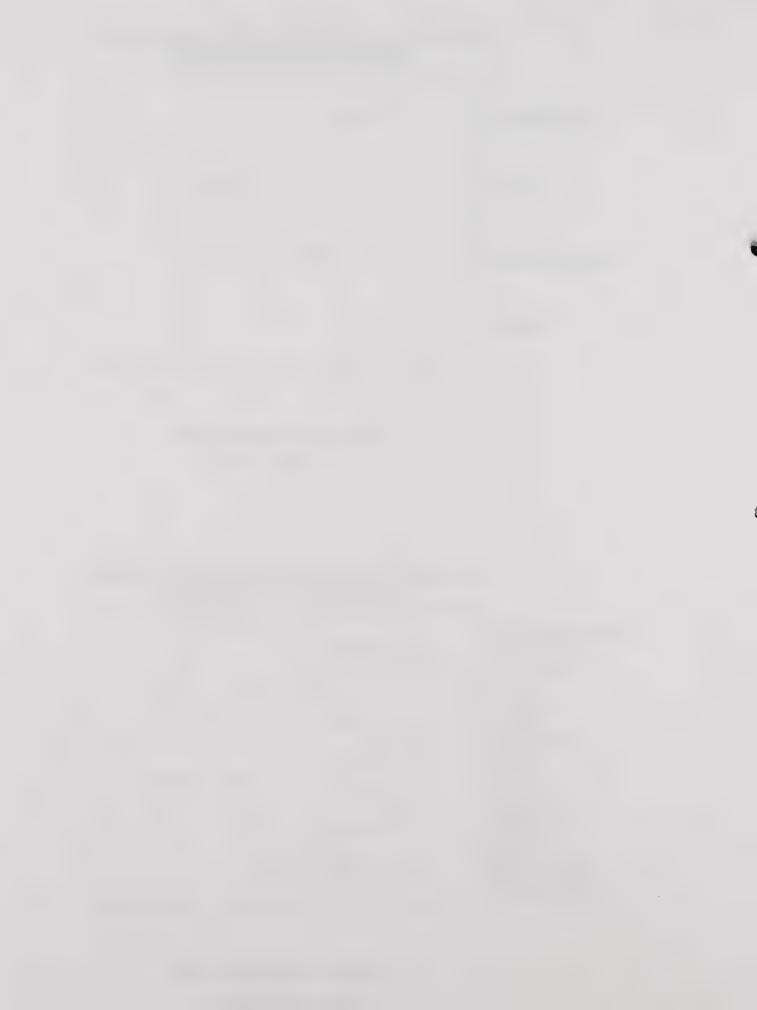
Source: Epidemiology, SFDPH

### San Francisco Female Cervical Cancer Rates 1987-1993 By Planning District and Age-adjusted

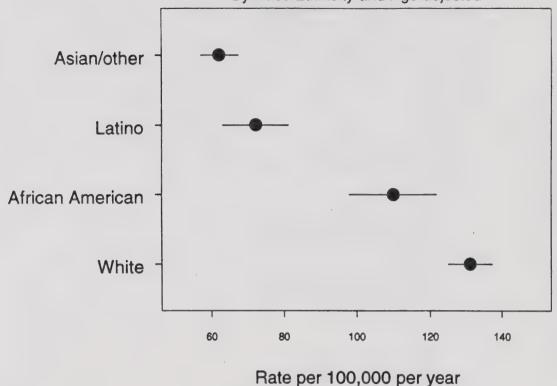


Rate per 100,000 per year

Source: Epidemiology, SFDPH

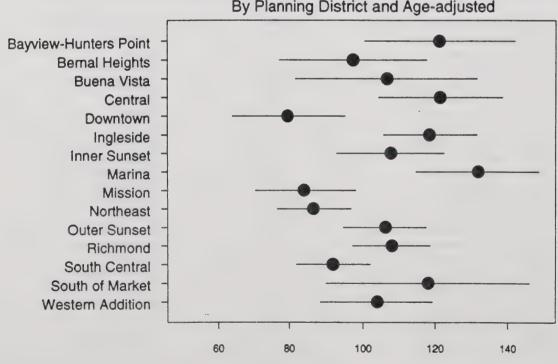


## San Francisco Female Breast Cancer Rates 1987-1993 By Race/Ethnicity and Age-adjusted



Source: Epidemiology, SFDPH

# San Francisco Female Breast Cancer Rates 1987-1993 By Planning District and Age-adjusted



Rate per 100,000 per year



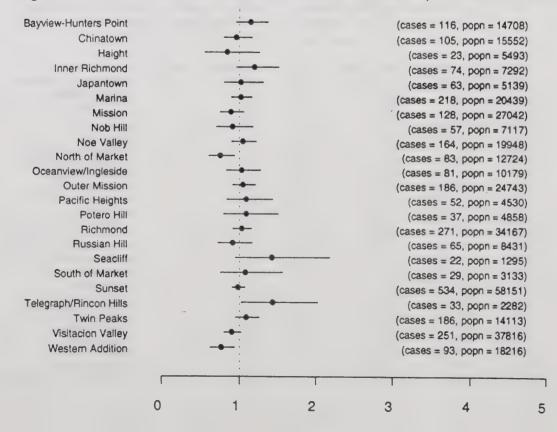
Female Cancer Incidence 1988-92

lue

Site	ОЪя	Exp	SIR	P-va
All sites	342	311.5	1.10	0.
Breast	107	84.5	1.27	0.
Lung, bronchus	45	42.0	1.07	0.
Colorectal	40	42.0	0.95	0.
Cervix	22	11.5	1.91	0.
NH Lymphoma	15	11.5	1.30	0.
Leukemia	9	6.5	1.38	0.
Brain	4	3.0	1.33	
Bladder	2	4.5	0.44	
Childhood	2	3.0	0.67	

Figure 7. Breast Cancer in San Francisco Neighborhoods Age- & Race-Standardized Incidence Ratios, 1988-93 Data

014 640 760 760 002 300 330 NS





### BREAST CANCER UPDATE 1988-93

Invasive Breast Cancer in San Francisco Neighborhoods 1988-93 Age-Race Standardized Incidence Ratios (SIRs)

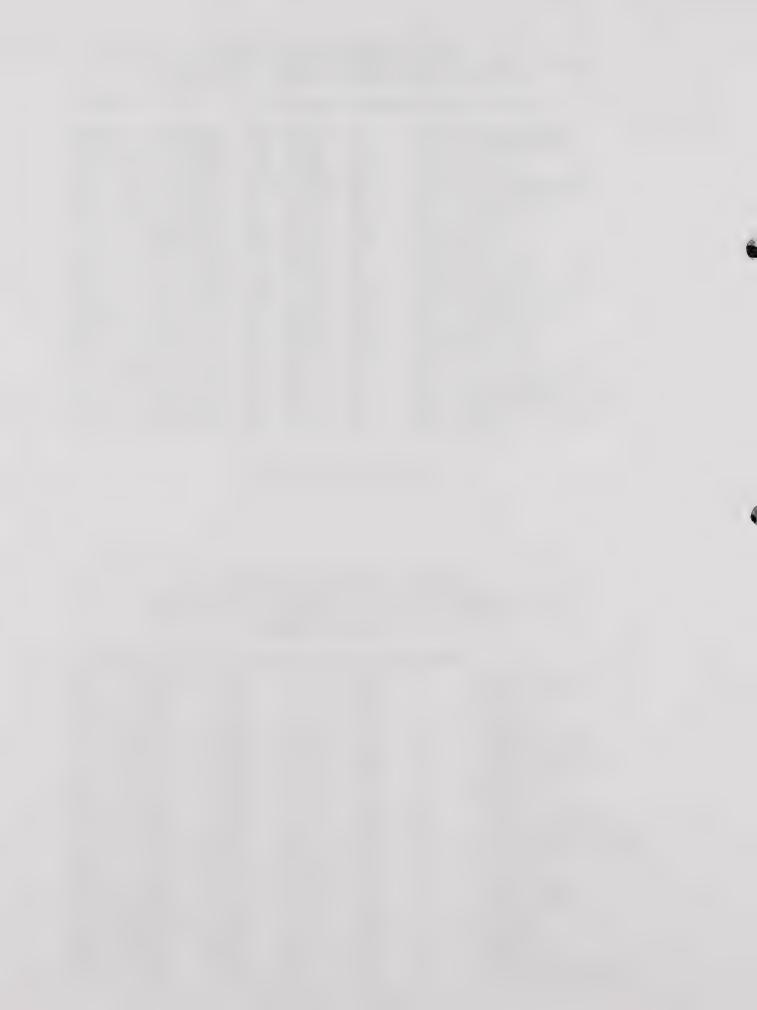
neighborhood	pop90	observed	expected	SIR	lci	uci	pvalue
north.of.market	12724	86	114.72	0.75	0.6068	0.9261	0.0084
western.addition	18216	100	126.98	0.79	0.6474	0.9580	0.0188
haight	5493	23	28.62	0.80	0.5341	1.2094	0.3387
mission	27042	132	149.59	0.88	0.7440	1.0465	0.1622
visitacion.valley	37816	258	290.03	0.89	0.7874		0.0641
russian.hill	8431	66	74.19	0.89	0.6989	1.1323	0.3717
nob.hill	7117	61	65.57	0.93	0.7238	1.1956	0.6149
china.town	15552	109	113.80	0.96	0.7938	1.1556	0.6866
sunset	58151	553	566.07	0.98	0.8988	1.0618	0.5973
marina	20439	226	223.50	1.01	0.8876	1.1520	0.8935
japan.town		65	64.39	1.01	0.7916	1.2873	0.9889
oceanview.ingleside		83	82.00	1.01	0.8162	1.2551	0.9562
richmond		282	274.51	1.03	0.9141	1.1545	0.6730
south.of.market	3133	29	27.89	1.04	0.7226	1.4963	0.9079
noe.valley		173	163.46	1.06	0.9118	1.2284	0.4797
outer.mission		199	184.11	1.08	0.9407	1.2420	0.2888
twin.peaks		194	177.75	1.09	0.9481	1.2563	0.2376
potero.hill	4858	39	35.36	1.10	0.8058	1.5094	0.5979
pacific.heights	4530	56	49.72	1.13	0.8667	1.4635	0.4126
bayview.hunters.point		121	105.29	1.15	0.9616		0.1383
inner.richmond	7292	79	64.36	1.23	0.9845		0.0780
telegraph.rincon.hills	2282	36	24.00	1.50	1.0821	2.0796	0.0189
seacliff	1295	24	16.04	1.50	1.0031	2.2328	0.0624

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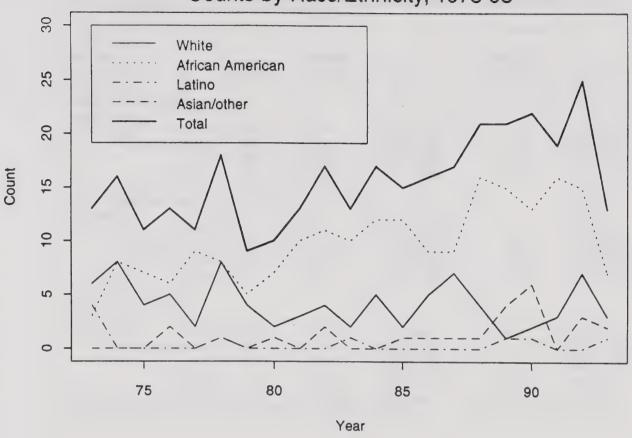
### BREAST CANCER UPDATE 1988-93

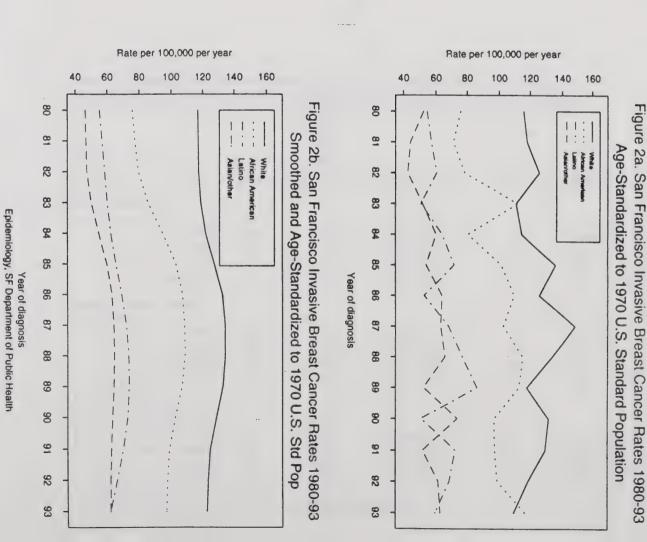
Invasive Breast Cancer in San Francisco Neighborhoods 1988-93
Age-Rase Standardized Incidence Ratios (SIRs)
for African Americans

	observed	expected	SIR	lower95%ci	upper95%ci	n-value
south.of.market	2	2.34	0.86	0.2142	3.4245	0.9141
potero.hill	2	5.93	0.34	0.0843	1.3480	0.1588
mission	7	5.65	1.24	0.5911	2.6009	0.7191
noe.valley	8	8.56	0.93	0.4674	1.8688	0.9836
marina	4	2.65	1.51	0.5671	4.0256	0.6003
pacific.heights	0	1.02	0.00	0.0000	NA	0.6080
western.addition	48	63.37	0.76	0.5708	1.0051	0.0618
japan.town	14	10.20	1.37	0.8131	2.3181	0.3010
inner.richmond	8	6.96	1.15	0.5744	2.2969	0.8393
haight	5	7.43	0.67	0.2800	1.6165	0.4786
outer.mission	11	10.49	1.05	0.5805	1.8928	0.9985
visitacion.valley	28	30.70	0.91	0.6297	1.3208	0.6910
bayview.hunters.point	82	73.71	1.11	0.8960	1.3813	0.3642
telegraph.rincon.hills	1	1.00	1.00	0.1402	7.0681	0.6209
china.town	1	0.48	2.06	0.2905	14.6384	0.9828
nob.hill	2	1.09	1.83	0.4572	7.3092	0.6980
russian.hill	2	1.30	1.54	0.3858	6.1677	0.8582
north.of.market	.3	6.59	0.46	0.1468	1.4116	0.2287
seacliff	1	0.07	14.18	1.9981	100.6986	0.1057
richmond	9	6.50	1.38	0.7200	2.6596	0.4337
sunset	10	10.44	0.96	0.5156	1.7810	0.9841
twin.peaks	9	9.05	0.99	0.5173	1.9108	0.8817
oceanview.ingleside	48	45.36	1.06	0.7975	1.4043	0.7502



# Invasive Breast Cancer in Bayview-Hunters Point Counts by Race/Ethnicity, 1973-93





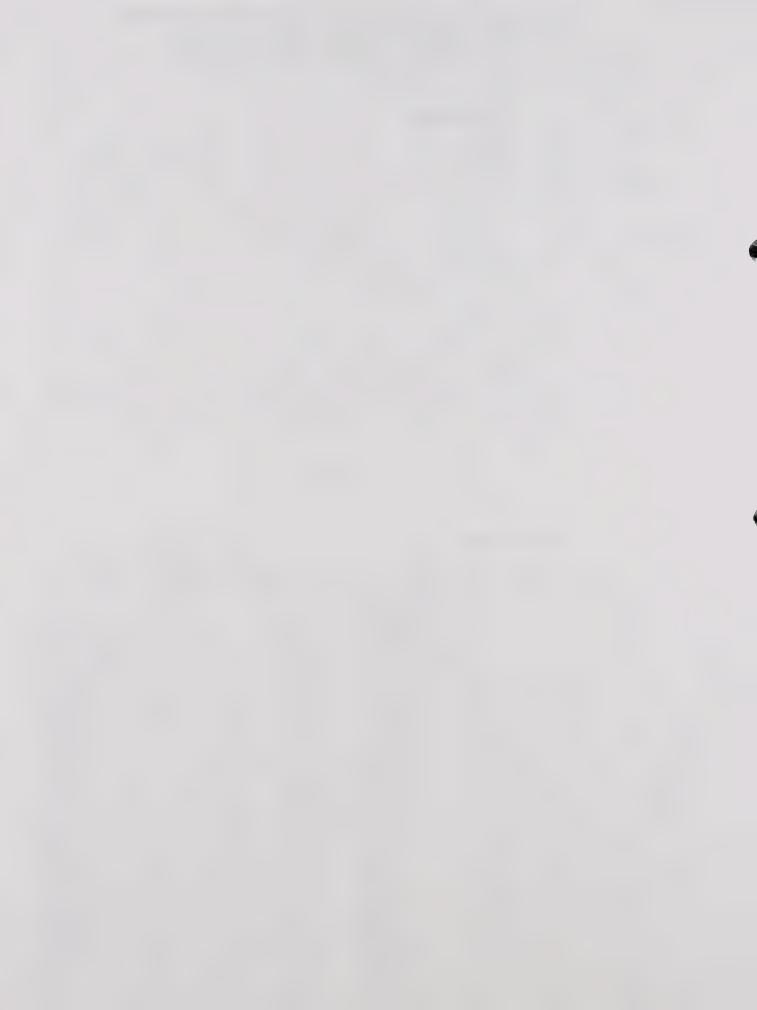


Table 8. Adjusted Rate Ratios for Race/Ethnicity from Multivariable Cox Models\* Stratified by Era of Diagnosis, Breast Cancer in San Francisco 1973-93 (N = 9414)

		<b>Breast Cancer</b>			
		Deaths		All Deaths	
Variable		Hazard		Hazard	
	No.	Rate Ratio	(95% C.I.)	Rate Ratio	(95% C.I.)
Model 1: Years 1973-79					
Race/ethnicity					
White	2346	1.00	(Reference)	1.00	(Reference)
African American	235	1.33	(1.08 - 1.63)	1.18	(1.00 - 1.38)
Latino	153	0.95	(0.71 - 1.25)	0.90	(0.73 - 1.11)
Asian/other	272	0.90	(0.72 - 1.13)	0.83	(0.70 - 0.98)
Model 2: Years 1980-86					
Race/ethnicity					
White	2252	1.00	(Reference)	1.00	(Reference)
African American	294	1.46	(1.18 - 1.81)	1.29	(1.10 - 1.51)
Latino	187	1.02	(0.77 - 1.36)	0.86	(0.69 - 1.07)
Asian/other	372	1.15	(0.92 - 1.43)	1.00	(0.85 - 1.07)
Model 3: Years 1987-93					
Race/ethnicity					
White	2156	1.00	(Reference)	1.00	(Pafaranac)
African American	331	1.54	(1.16 - 2.04)	1.32	(Reference)
Latino	246	0.80	(0.54 - 1.18)	0.71	(1.06 - 1.64)
Asian/other	570	1.12	(0.85 - 1.47)	1.10	(0.53 - 0.95) (0.90 - 1.33)

<sup>\*</sup> All models adjusted for age, summary stage, and histological grade

Table 9. Adjusted Rate Ratios for Race/Ethnicity from Multivariable Cox Models\*
Stratified by Stage at Diagnosis, Breast Cancer in San Francisco 1973-93 (N = 8988)

		Breast Cancer	- San Francisco	1775-75 (14 = 0.	700)
		Deaths		All Deaths	
Variable	No.	Hazard Rate Ratio	(95% C.L.)	Hazard Rate Ratio	(95% C.L)
Model 1: Local Stage					
Race/ethnicity					
White African American	3764 415	1.00 1.77	(Reference) (1.35 - 2.32)	1.00 1.26	(Reference) (1.06 - 1.49)
Latino Asian/other	302 700	1.11 1.28	(0.76 - 1.62) (0.98 - 1.65)	0.99 0.91	(0.80 - 1.23) (0.77 - 1.07)
Model 2: Regional Stage Race/ethnicity					
White	2229	1.00	(Reference)	1.00	(Reference)
African American	310	1.43	(1.19 - 1.73)	1.25	(1.07 - 1.46)
Latino Asian/other	217 400	0.95 1.03	(0.73 - 1.23) (0.85 - 1.25)	0.86 1.02	(0.70 - 1.06) (0.87 - 1.19)
Model 3: Distant Stage Race/ethnicity	**				
White	451	1.00	(Reference)	1.00	(Reference)
African American	92	1.15	(0.88 - 1.50)	1.17	(0.92 - 1.48)
Latino	35	0.62	(0.40 - 0.94)	0.66	(0.45 - 0.96)
Asian/other	73	0.82	(0.60 - 1.11)	0.94	(0.70 - 1.19)

<sup>\*</sup> All models adjusted for age, era of diagnosis, and histological grade



Community Health Mini-Profile
Bayview-Hunters Point Health & Environmental Assessment Project
Leading Causes of Death in Bayview-Hunters Point

# Compared to San Francisco 1989-1995

LEADING SPECIFIC CAUSES OF DEATH BASED ON AGE-ADJUSTED MORTALITY RATES BAYVIEW HUNTERS POINT (1989-1995) COMPARED TO SAN FRANCISCO (1987-1995)

San Francisco Department of Public Health

DRAFT May 14, 1997 Office of Chronic Disease Epidemiology Community Health & Safety Division

Tomás Aragón, MD, MPH

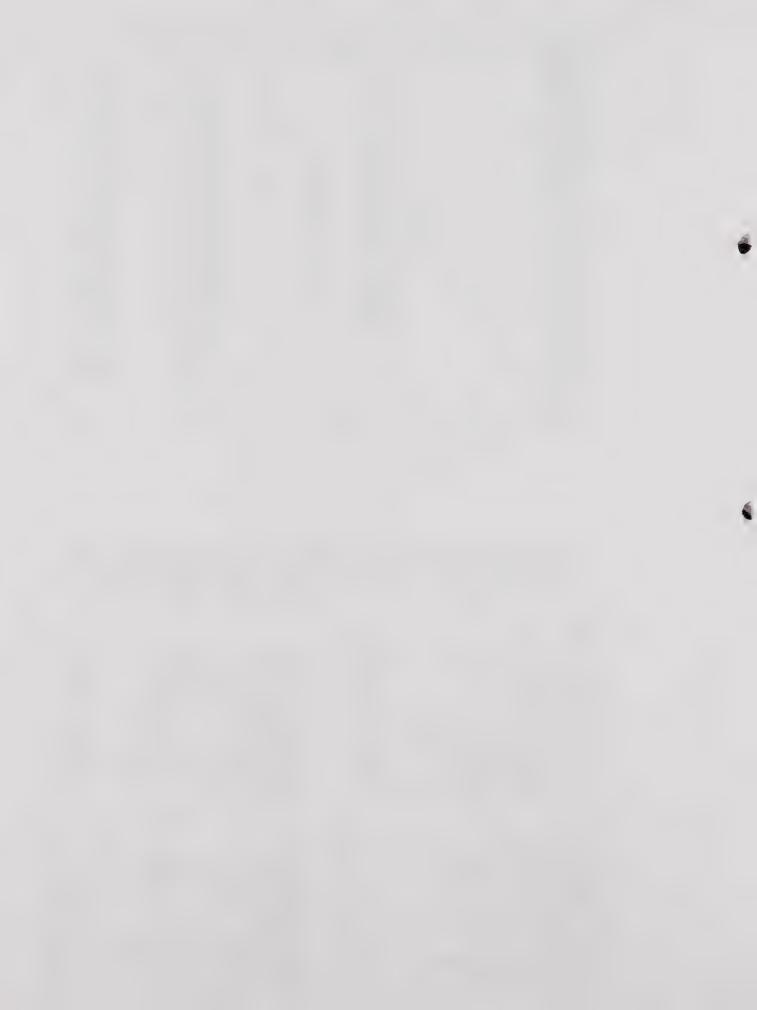
BAYVIEW HUNTERS POINT

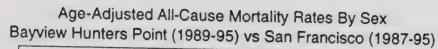
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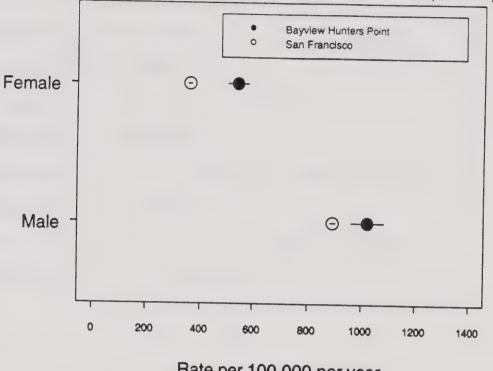
California Cancer Center: Lead Poisoning Prevention Project; University of California, San Francisco Department of Public Health, California Department of Health Services, and more.

SAN FRANCISCO

MALES			
CAUSE OF DEATH	RATE		RATE
Ischemic heart disease	174.3	HIV infection/AIDS	220.9
HIV infection/AIDS	110.0	Ischemic heart disease	153.8
Homicide	89.1	Lung cancer	47.5
Lung cancer	70.2	Cerebrovascular (Stroke)	33.6
Cerebrovascular (Stroke)	65.4	Pneumonia	25.6
Pneumonia	30.3	Chronic liver & cirrhosis	24.3
Drug poisoning (overdose)	28.3	Suicide	24.0
Prostate cancer	23.8	Chronic obstr. pulm. disease	22.5
Motor Vehicle Traffic	21.0	Drug poisoning (overdose)	20.5
Chronic obstr. pulm. disease	20.3	Homicide	19.6
FEMALES			
CAUSE OF DEATH	RATE		RATE
CAUSE OF DEATH	MIL	•	ALLA
Ischemic heart disease	99.3	Ischemic heart disease	71.7
Cerebrovascular (Stroke)	34.5	Cerebrovascular (Stroke)	27.9
Breast cancer	33.2	Lung cancer	23.0
Lung cancer	25.6	Breast cancer	20.2
HIV infection/AIDS	20.7	Pneumonia	12.7
Diabetes mellitus	19.3	Colorectal cancers	10.7
Pneumonia	16.4	Chronic obstr. pulm. disease	10.3
Drug poisoning (overdose)	13.3	Chronic liver & cirrhosis	8.3
Colorectal cancers	11.7	Suicide	7.0
Homicide	11.6	Diabetes mellitus	6.5

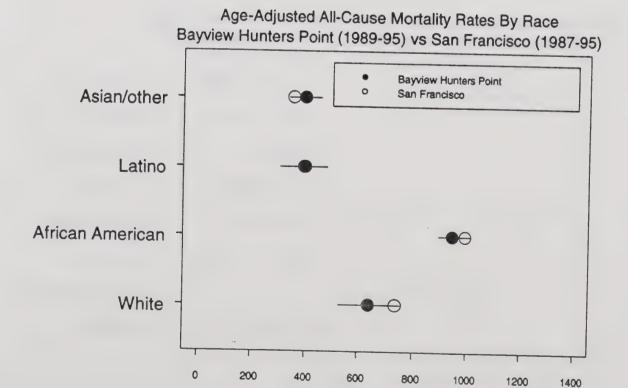






### Rate per 100,000 per year

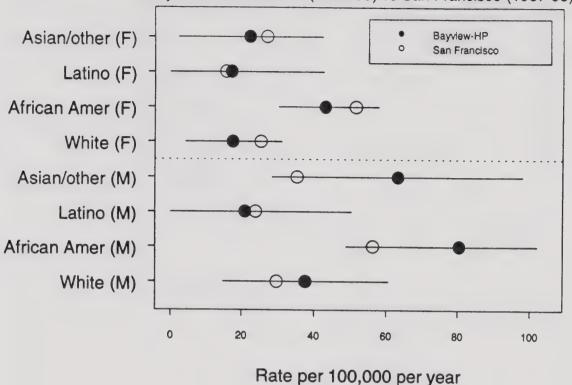
Source: Epidemiology, SFDPH



Rate per 100,000 per year

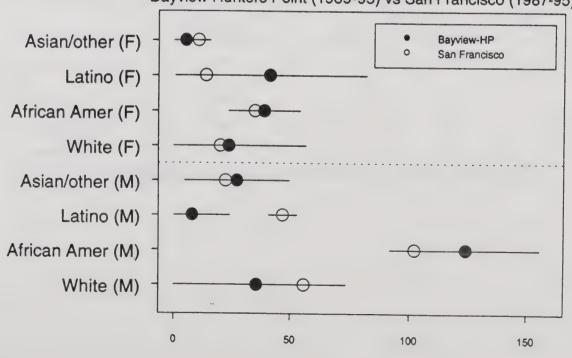


### Age-Adjusted Stroke Mortality Rates By Sex and Race Bayview Hunters Point (1989-95) vs San Francisco (1987-95)

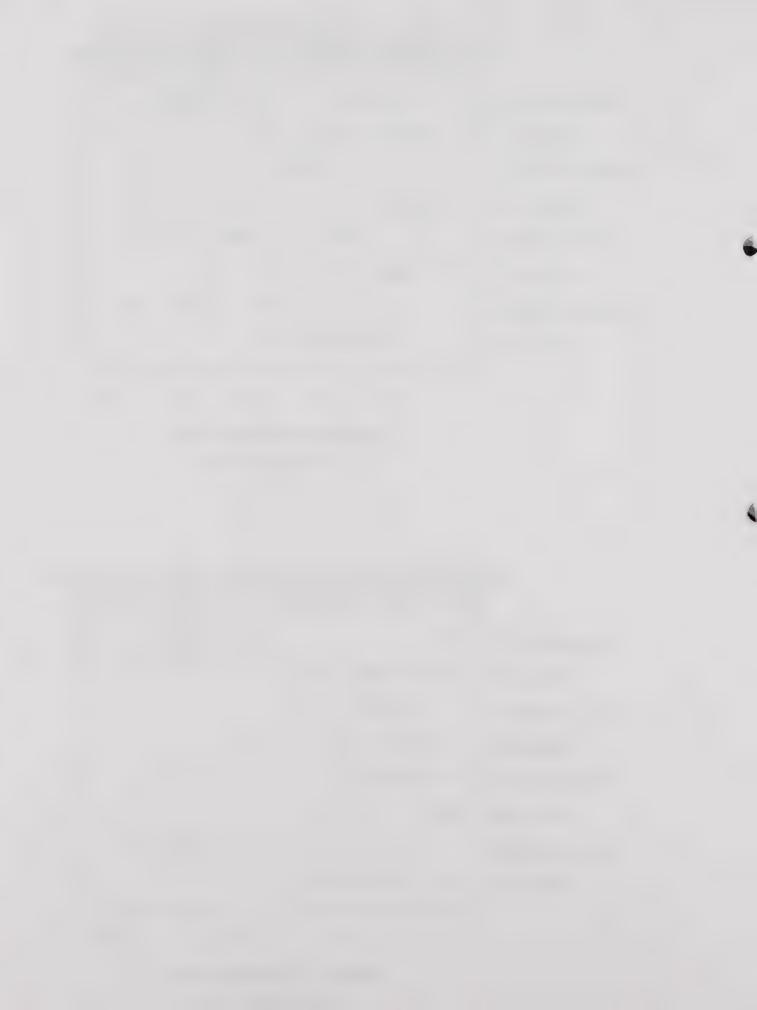


Source: Epidemiology, SFDPH

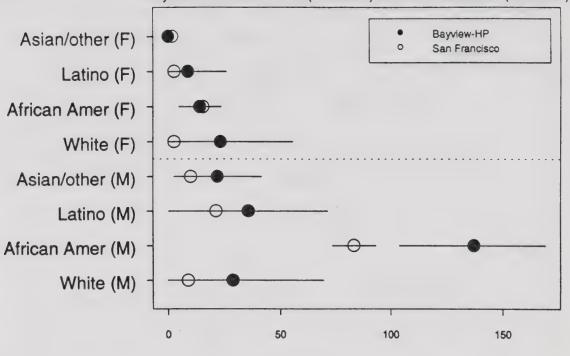
Age-Adjusted Unintentional Injury Mortality Rates By Sex and Race Bayview Hunters Point (1989-95) vs San Francisco (1987-95)



Rate per 100,000 per year



### Age-Adjusted Homicide Mortality Rates By Sex and Race Bayview Hunters Point (1989-95) vs San Francisco (1987-95)



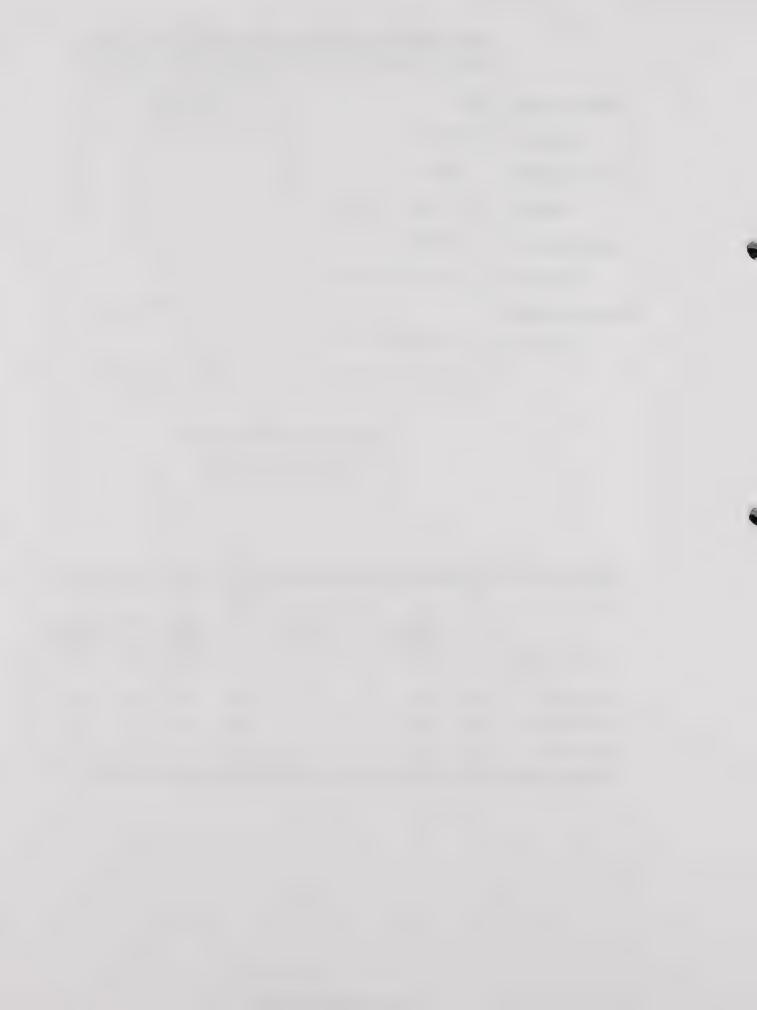
Rate per 100,000 per year

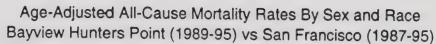
Source: Epidemiology, SFDPH

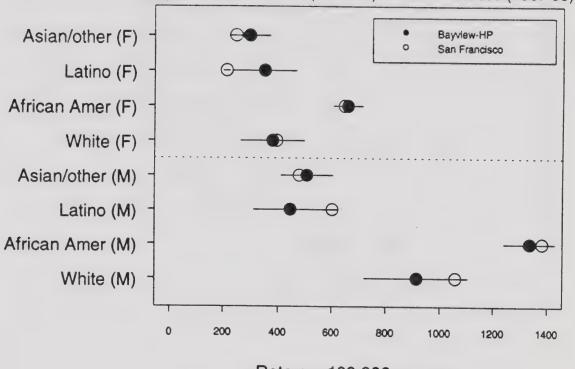
Table 5-1. Life Expectancy at Birth based on San Francisco Mortality Data 1987 - 1995

Population and years	Males				Females			
	White	African American	Latino	Asian / other	White	African American	Latino	Asian / other
San Francisco 1987-1995	64.9	59.9	73.9	76.5	79.2	72.5	86.5	83.7
United States 1993*	73.1	64.6	na	na	79.5	73.7	na	na
United States 1970*	68.0	60.0	na.	na	75.6	68.3	na	na
United States 1940*	62.1	na	na	na.	66.6	na	na	ns.

<sup>\*</sup>Gardner P, Hudson BL. Advance report of final mortality statistics, 1993. Monthly vital statistics report; vol 44 no 7, supp





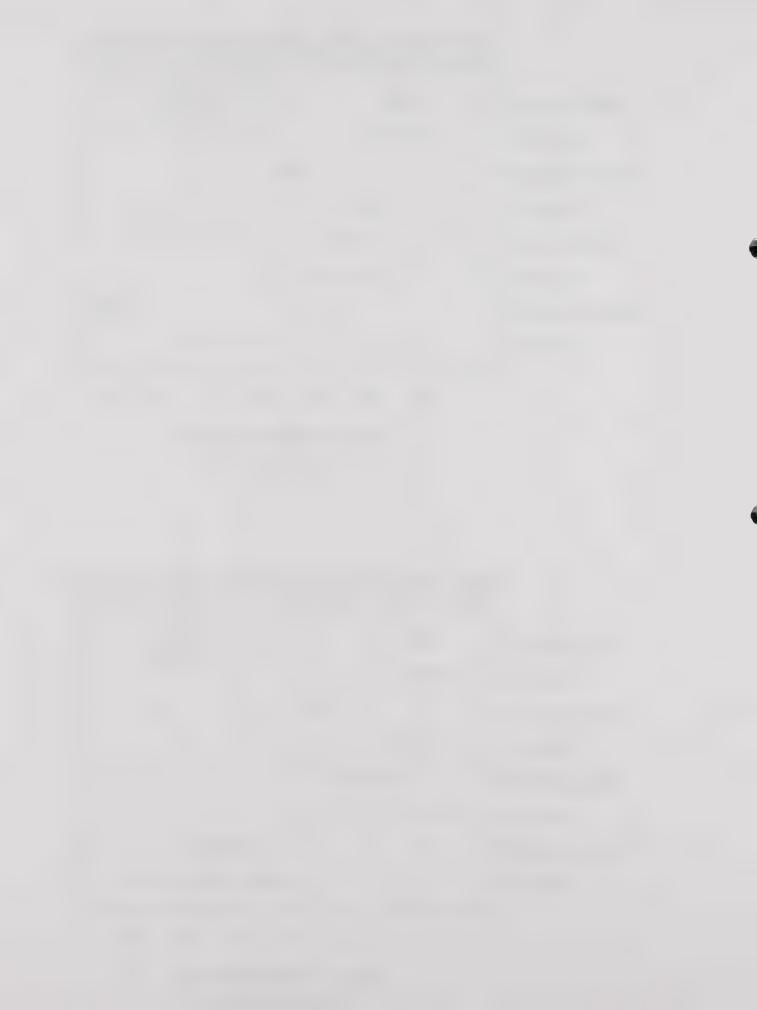


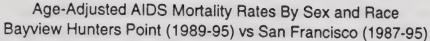
### Rate per 100,000 per year

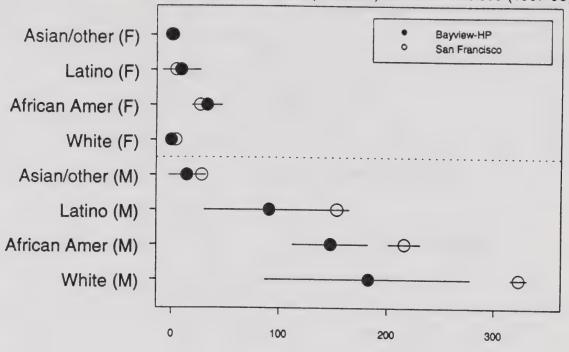
Source: Epidemiology, SFDPH



Rate per 100,000 per year

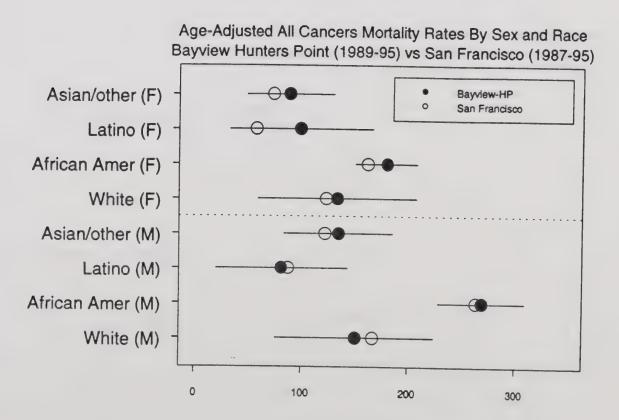




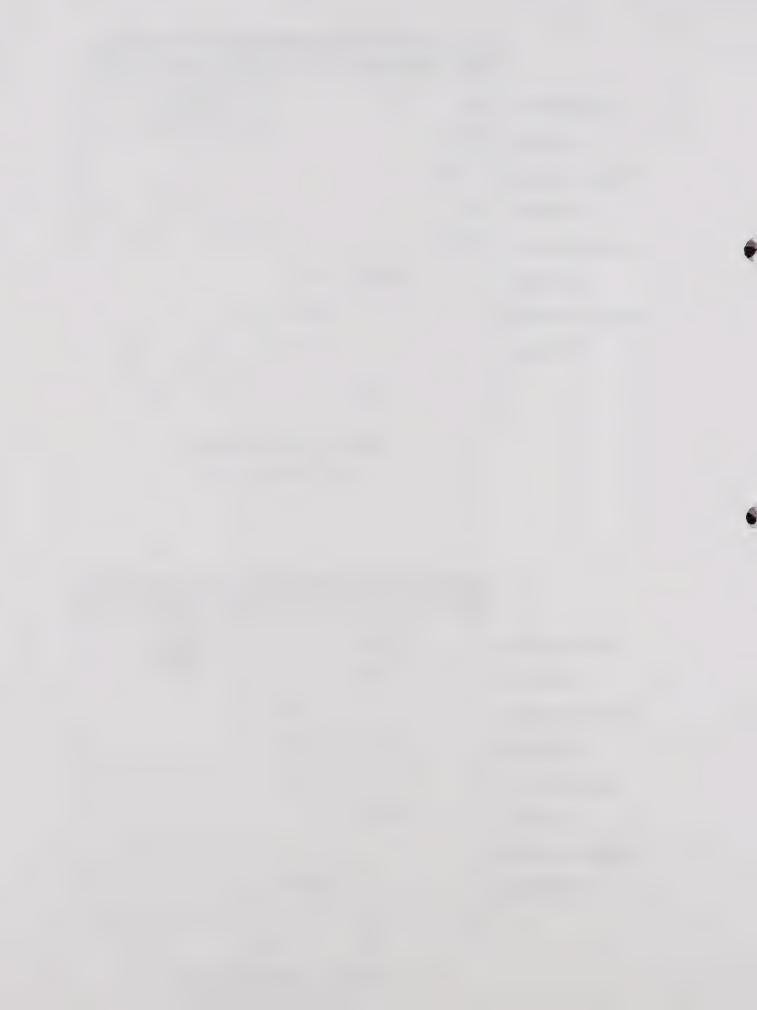


### Rate per 100,000 per year

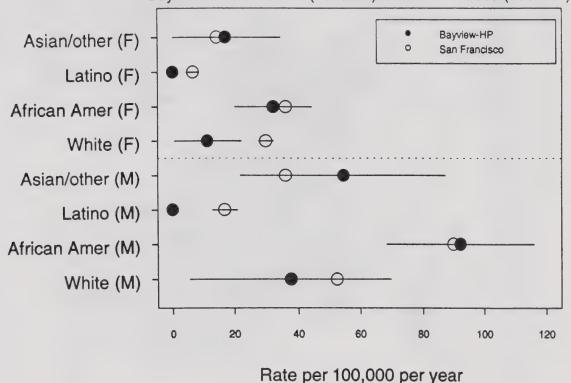
Source: Epidemiology, SFDPH



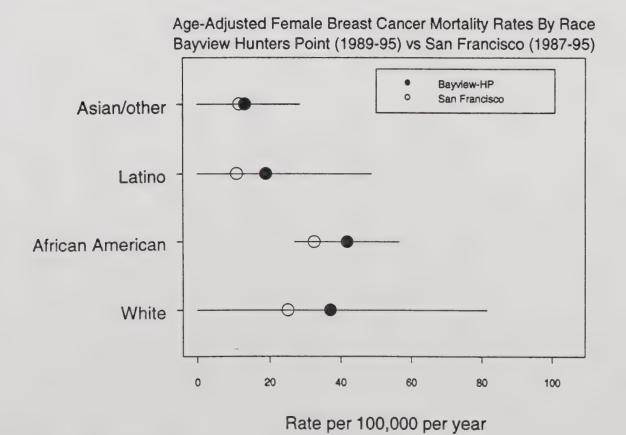
Rate per 100,000 per year

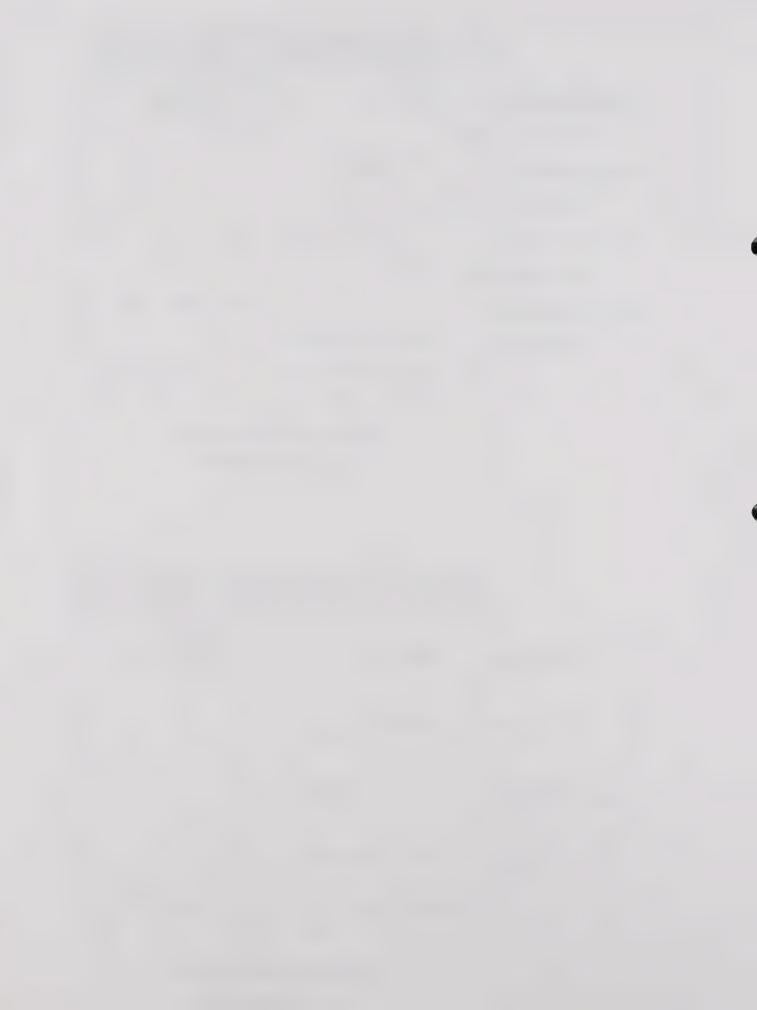


Age-Adjusted Lung Cancer Mortality Rates By Sex and Race Bayview Hunters Point (1989-95) vs San Francisco (1987-95)



Source: Epidemiology, SFDPH





### Overview S.F. Environmental data

### Toxics Profile Inventory SF DPH

- Acutely Hazardous Material Sites
- Hazardous Waste Generators
- Underground Storage Sites
- Leaking Underground Storage Sites (undergoing clean up)
- · Hazardous Materials Registered Sites
- Hazardous Waste On-Site Treatment Facilities
- State EPA Sites (hazardous waste contaminated sites)
- · Power Plants
- BAAQMD Permitted Sites (not mapped)
- Toxic Air Contaminant Sites (not mapped)



Map provided by the San Francisco Department of Public Health through the Bayview Hunters Point Health & Environmental Task Force 1995

